

Explosion Proof Combination Signal – 110 dB (A) / 5 Joule

Series YL60



- > Omnidirectional high output sounder 110 dB (A) / 1 m
- > 5 Joule xenon strobe
- > 2 stage alarm, independently selectable 2nd stage
- > IP66 rated as standard
- > Aluminium enclosure with stainless steel fasteners
- > Flash rate 1 per second
- > 32 selectable tones meeting international regulations
- > Sound selection via DIL switch
- > Lens guard and mounting bracket supplied as standard
- > Telephone initiate option available



14719E00

Yodalex range
 Combination audible and visual signal designed for use in hazardous or harsh environments.

		ATEX / IECEx							NEC 505 Class I			NEC 506					NEC 500 Class I Class II Class III						
Zone		0	1	2	20	21	22	Zone		0	1	2	20	21	22	Division		1	2	1	2	1	2
For use in			x	x		x	x	For use in			x	x		x	x	For use in		x	x	x	x	x	x

WebCode YL60A

Explosion Proof Combination Signal – 110 dB (A) / 5 Joule

Series YL60



Explosion Protection

Global (IECEx)

Gas and dust

IIB+H2	IECEx BAS 05.0087X
IIB	IECEx BAS 05.0086X
IIB+H2, IIB	IEC 60079-0: 2011 / IEC 60079-1: 2007-04 / IEC 60079-31: 2008
IIB+H2	Ex d IIB+H2 T4 Gb (Ta = -20 ... +60 °C) Ex tb IIIC T135°C Db IP 66 (Ta = -20 ... +60 °C) Ex d IIB+H2 T6 Gb (Ta = -20 ... +40 °C) Ex tb IIIC T85°C Db IP 66 (Ta = -20 ... +40 °C)
IIB	Ex d IIB T4 Gb (Ta = -35 ... +60 °C) Ex tb IIIC T135°C Db IP 66 (Ta = -35 ... +60 °C) Ex d IIB T6 Gb (Ta = -35 ... +40 °C) Ex tb IIIC T85°C Db IP 66 (Ta = -35 ... +40 °C)

Europe (ATEX)

Gas and dust

IIB+H2	Baseefa02ATEX0222X
IIB	Baseefa02ATEX0212X
IIB+H2, IIB	EN 60079-0: 2009 / EN 60079-1: 2007 / EN 60079-31: 2009
IIB+H2	⊕ II 2 GD Ex d IIB+H2 T4 Gb (Ta = -20 ... +60 °C) ⊕ II 2 GD Ex tb IIIC T135°C Db IP 66 (Ta = -20 ... +60 °C) ⊕ II 2 GD Ex d IIB+H2 T6 Gb (Ta = -20 ... +40 °C) ⊕ II 2 GD Ex tb IIIC T85°C Db IP 66 (Ta = -20 ... +40 °C)
IIB	⊕ II 2 GD Ex d IIB T4 Gb (Ta = -35 ... +60 °C) ⊕ II 2 GD Ex tb IIIC T135°C Db IP 66 (Ta = -35 ... +60 °C) ⊕ II 2 GD Ex d IIB T6 Gb (Ta = -35 ... +40 °C) ⊕ II 2 GD Ex tb IIIC T85°C Db IP 66 (Ta = -35 ... +40 °C)

USA and Canada (UL variants)

Gas and dust

IIB+H2, IIB	E161818
IIB+H2, IIB	SL: UL 60079-0 / UL 60079-1 / UL 1203 / UL 1638 CSA C22.2 No. 30-M1986 / CSA C22.2 No. 25-M1966 / CSA E60079-0-7 / CSA E60079-1
IIB+H2	Class I, Div. 1, Groups B, C and D Class I, Div. 2, Groups B, C and D Class 1 Zone 1 AEx d IIB + H ² T4 Class 1 Zone 1 Ex d IIB + H ² T4 Operating temperature -25 ... +66 °C Audible signal appliance public mode with supplementary Visual signal appliance private mode
IIB	Class I, Div. 1, Groups C and D Class I, Div. 2, Groups C and D Class 1 Zone 1 AEx d IIB T4 Class 1 Zone 1 Ex d IIB T4 Operating temperature -35 ... +66 °C Audible signal appliance public mode with supplementary Visual signal appliance private mode

Russia (GOST R)

Gas

Marking and certification based on and line with the ATEX product.

Certifications and certificates

Certificates

IECEx, ATEX, Brazil (INMETRO), India (PESO), Kazakhstan (GOST K), Russia (GOST R), Taiwan (ITRI), USA (UL)

E5

Explosion Proof Combination Signal – 110 dB (A) / 5 Joule

Series YL60



Technical Data

Electrical data

Rated operational voltage	24 V DC, 48 V DC, 115 V AC and 230 V AC operational parameters + or -10 %	
Rated operational current	24 V DC	570 mA
	48 V DC	435 mA
	115 V AC	200 mA
	230 V AC	100 mA

Acoustic data

Volume	110 db (A) / 1 m
Sound selection	via DIL-switch

Luminous characteristics

Effective candela	5 J	
	Clear	30 cd
	Yellow	29 cd
	Amber	17 cd
	Red	9 cd
	Blue	6 cd
	Green	7 cd
	No figures for Magenta or Opal lens	
Flash energy	5 J	
Flash rate	60 FPM	

Ambient conditions

Operating temperature range	version		
	IIB	Europe	T4
			T6
	IIB + H ₂	Europe	T4
			T6
	IIB	USA	T4
	IIB + H ₂	USA	T4
			- 35 ... + 60 °C
			- 35 ... + 40 °C
			- 20 ... + 60 °C
			- 20 ... + 40 °C
			- 35 ... + 66 °C
			- 25 ... + 66 °C

Mechanical data

Material	
Enclosure	aluminium, seawater resistant
Horn	ABS, flame retardant
Lens cover	polycarbonate
Fixings	stainless steel
Mounting bracket	mild steel with black polyester powder coat finish; supplied as standard
Product label	metalised polyester UL certified variants supplied with stainless steel label
Degree of protection	IP66 – IEC 60529 NEMA 4X – UL 50
Cable entries	2 cable entries, equipped with stopping plug (1x) and dust cap (1x) UL devices: equipped with M20 / 1/2 " adaptors (2x)

Explosion Proof Combination Signal – 110 dB (A) / 5 Joule

Series YL60



Selection Table

Version	Group	Flash energy	Rated operational voltage	Lens colour	Order number	Art. no.	Weight
YL60 Sounder/Strobe, ATEX certification, standard devices	IIB + H ₂	5 Joule	24 V DC	amber	YL60/C/D50/A/EU	205250	kg 6.000
				red	YL60/C/D50/R/EU	205257	6.000
			115 V AC	amber	YL60/C/L50/A/EU	205267	6.000
				red	YL60/C/L50/R/EU	205271	6.000
			230 V AC	amber	YL60/C/N50/A/EU	205273	6.000
				red	YL60/C/N50/R/EU	205282	6.000
YL60 Sounder/Strobe, UL certification, standard devices	B, C, D	5 Joule	24 V DC	amber	YL60/B/D50/A/UL	205287	6.000
				red	YL60/B/D50/R/UL	205293	6.000
			115 V AC	amber	YL60/B/L50/A/UL	205568	6.000
				red	YL60/B/L50/R/UL	205299	6.000
			230 V AC	amber	YL60/B/N50/A/UL	205301	6.000
				red	YL60/B/N50/R/UL	212386	6.000
YL60 Sounder/Strobe, IECEx certification, standard devices	IIB + H ₂	5 Joule	24 V DC	amber	YL60/C/D50/A/IN	210791	6.000
				red	YL60/C/D50/R/IN	209605	6.000
			115 V AC	amber	YL60/C/L50/A/IN	212387	6.000
				red	YL60/C/L50/R/IN	212388	6.000
			230 V AC	amber	YL60/C/N50/A/IN	205276	6.000
				red	YL60/C/N50/R/IN	205284	6.000
YL60 Sounder/Strobe, GOST R certification, standard devices	IIB + H ₂	5 Joule	24 V DC	amber	YL60/C/D50/A/RU	212389	6.000
				red	YL60/C/D50/R/RU	205265	6.000
			115 V AC	amber	YL60/C/L50/A/RU	212390	6.000
				red	YL60/C/L50/R/RU	205272	6.000
			230 V AC	amber	YL60/C/N50/A/RU	212391	6.000
				red	YL60/C/N50/R/RU	212392	6.000
Note	Variations in gas group, flash energy, voltage and lens colour are available, please use the Selection Table						

Note

Variations in gas group, flash energy, voltage and lens colour are available, please use the Selection Table

Selection Table

Version	Variations	Order Number
YL60 Sounder/Strobe combination, devices acc. to specification	Type code: please fill in fields	YL60 / _ / _ / _ / _ / _ / _ / _
	Gas group	
	EU, IN and RU units	IIB B
	UL units	IIB + H ₂ C
	C, D gas groups	C C
	B, C, D gas groups	B B
	Rated operational voltage	
	24 V DC	D
	48 V DC	F
	115 V AC	L
	230 V AC	N
	Flash energy	
	5 Joule	50
	Lens colour	
	amber	A
	red	R
	green	G
	opal	O
	blue	B
	clear	C
	yellow	Y
	Certification	
	ATEX	EU
	UL	UL
	IECEX	IN
	GOST-R	RU
	Additions	
	activation telephone initiate	TI
	additional approvals	L

Note

Duty + tag labels are available on request.
Please contact your local sales office for more details.

E5

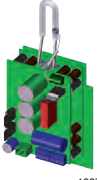
Explosion Proof Combination Signal – 110 dB (A) / 5 Joule Series YL60



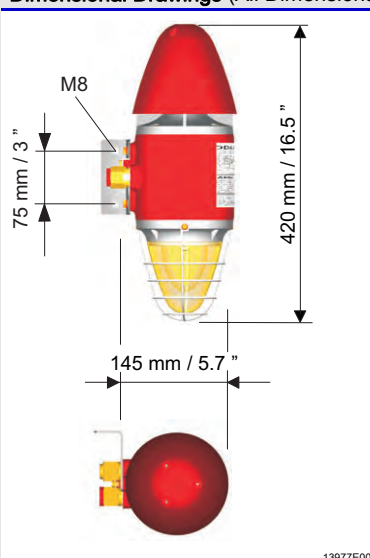
Accessories and Spare Parts

Designation	Figure	Description	Group	Order number	Art. no.	WebCode
Cable gland		Compound Barrier Cable Glands Ex d and Ex e for all Types of Unarmoured Cables	IIB + H ₂ and IIC	8163/2-20- PXSS2K-M20	138888	8163J
		Compound Barrier Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB + H ₂ and IIC	8163/2-20- PX2K-M20	138875	8163I
		Cable Glands Ex d and Ex e for Unarmoured Cables	IIB	8163/2-20- A2F-M20	138772	8163A
		Triton CDS Cable Glands Ex d and Ex e for all Types of Armoured Cables	IIB	8163/2-20- T3CDS-M20	138902	8163K
Note Approvals of cable entries have to be observed.						

Accessories and Spare Parts

Designation	Figure	Description	Art. no.
Mounting bracket		stainless steel bracket fixing kit accessories	210794
Replacement PCB assembly		24 V DC / 5 J	222970
		115...230 V AC / 5 J	209522
Sound reduction kit		sound reduction kit reduce dB output to 75 dB (A) 24 V DC variants	229983

Dimensional Drawings (All Dimensions in mm / inches) - Subject to Alterations



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice.
The illustrations cannot be considered binding.